

Message Text

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ACTION OC-06

INFO OCT-01 EUR-12 ISO-00 FBOE-00 A-01 CCO-00 SY-05

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FM AMEMBASSY MOSCOW

TO SECSTATE WASHDC PRIORITY 1114

INFO AMEMBASSY BONN

AMEMBASSY LONDON

C O N F I D E N T I A L MOSCOW 09224

BONN FOR RCO

LONDON FOR ATO

E.O. 11652: XGDS-2

TAGS: AFAC, ASEC, AFOP, ABLD

SUBJECT: EMBASSY RECONSTRUCTION, PROPERTY NO. L01001, CRU
STATION GROUND

REF: STATE 106319

1. SINCE CONDUIT RUNS MADE ADJACENT TO ELEVATOR SHAFT
COULD NOT BE RUN AS STRAIGHT, CONTINUOUS CONDUIT DUE TO
STRUCTURAL PROBLEMS WITH CONCRETE FLOOR SLABS (FLOOR
SLABS FORCED ZIG ZAG CONDUIT RUN WITH INTERVENING PULL
BOXES), SAID RUN WILL NOT MEET DTS INSTALLATION STAN-
DARDS REQUIREMENT.
2. IF RUN IN ELEVATOR SHAFT UNACCEPTABLE, AS PER REFTTEL,
TEMPORARY SOLUTION WOULD NEED BE IMPLEMENTED UNTIL PROPER
CONDUIT RUN INSTALLED.
3. TEMPORARY SOLUTION AS FOLLOWS:
- A. REMOVE THE LINE BETWEEN THE TCU GROUND STUD AND
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- THE WATER PIPE.
- B. CONNECT THE GROUND BUS OF THE ISOLATED POWER
PANEL TO THE C AND R ENCLOSURE GROUND LUG.
- C. REMOVE THE SAFETY GROUND WIRE FROM THE C AND R
NON-ISOLATED POWER PANEL.

- D. RUN THE SAFETY GROUND OF THE C AND R NON-
ISOLATED POWER PANEL TO THE SAFETY GROUND OF THE
EIGHTH FLOOR MAIN DISTRIBUTION PANEL.
- E. CONNECT THE SAFETY GROUND WIRE (REMOVED IN C)
TO THE C AND R ENCLOSURE GROUND STUD; THIS GROUND
WIRE CURRENTLY 350 MCM.
- F. REMOVE THE OLD C AND R SAFETY GROUND WIRE FROM
THE SOVIET ENTRANCE FRAME AND CONNECT IT TO THE
OLD STATION GROUND.
- G. ADD MAGNESIUM SULFATE AND WATER TO THE STATION
GROUND GRID.

WITH THE COMPLETION OF THE ABOVE WORK, THE ONLY EX-
CEPTIONS TO DTS STANDARDS WILL BE:

- H. THE NON-ISOLATED POWER SAFETY GROUND WILL BE
FLOATING WITH THE ENTRANCE NEUTRAL BUS. THIS
CONSTITUTES A SAFETY HAZARD, NOT A CONSEC HAZARD.
- ALL SAFETY GROUNDS IN THE BUILDING ARE NOW
FLOATING.
- I. THE ISOLATED GROUND SYSTEM WILL NOT BE IN UN-
BROKEN CONDUIT SINCE THERE IS A PULL BOX AT EACH
FLOOR.

4. THE LONG TERM SOLUTION TO THIS PROBLEM PROPOSED IS
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TO RUN A SINGLE NO. 2 AWG OR LARGER, GREEN, INSULATED
WIRE IN CONTINUOUS EMT CONDUIT FROM THE C AND R GROUND
LUG TO THE STATION GROUND AND RECONNECT THE UPPER END OF
THE GROUND WIRE (SECTION 3E AND 3F ABOVE) AS THE C AND R
NON-ISOLATED POWER SAFETY GROUND.

5. CONDUIT RUN WOULD HAVE TO BE ON EXTERIOR OF BUILDING
TO AVOID PROBLEMS WITH FLOOR SLABS. SPECIAL FUNDING AND
EMT CONDUIT WOULD NEED BE SUPPLIED FOR LONG TERM
SOLUTION.

6. ADVISE.
TOON

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